
Implementation

Engineering guidelines

When estimating the total number of call registers required by the system (NCR in LD 17), the following should be taken into account:

- An incoming FGD call uses one additional call register for the whole duration of the call.
- An outgoing FGD call uses one additional call register for the outpulsing stage only (including the subscriber's dialing).

Since the FGD block is per system, the RAN route number(s) and/or network or local DNs given in response to prompts OPER, ADFT, IIT, and ANIT (in Overlay 19) are not associated with any customer. All customers using the FGD feature must define their RAN routes and/or DNs in accordance with FGD block definitions.

The following Service Change (SCH) information shows how to configure FGD capabilities on the Meridian 1 system. The loads shown here are only partial, and apply to FGD only. Only new prompts or prompts and responses required for FGD are shown here.

For a complete description of the service change prompts and responses, see *X11 input/output guide* (553-3001-400).

LD 13—Digitone receiver and tone detector

REQ	NEW, CHG	Add, or change
TYPE	MFR	Multifrequency receivers A maximum of 255 MFR units can be defined.
TN	l s c u	loop, shelf, card, unit Only units 0 and 1 can be defined, and the card must be single density.

LD 14—Trunk data block

REQ	NEW, CHG	Add, or change
TYPE	FGDT	Feature Group D trunk
TN	l s c u	loop, shelf, card, unit Loop Channel is accepted for digital loops
CUST	0–99	Customer number
NCOS	0–99	Network Class of Service
RTMB	nn nn	Route and Member number FGD trunks must belong to FGDT type routes.
MNDN	nnnn	Manual directory number to delete
TGAR	nn	Trunk group access restriction
SIGL	EAM, EM4, LDR	Signal type Only these values are accepted for FGD.
CDEN	(DD), SD	Card Density
STRI	WNK	Start Arrangement must be WNK for FGD trunks.
STRO	WNK	must be WNK for FGD trunks.
CLS	MFR	CLS must be MFR for FGD.

LD 16—Route Data Block

REQ	NEW, CHG	Add or change
TYPE	RDB	Route Data Block
CUST	0–99	Customer number
ROUT	nnnn	FGD route number
TKTP	FGDT	Feature Group D route
CNTL	(NO), YES	Change controls or timers
_TIMR	ICF 0-(512)-32640	Incoming flash timer
_TIMR	OGF 0-(512)-32640	Outgoing flash timer
_TIMR	DDL 0-(70)-511	Dial delay timer
_TIMER	DSI 128-(34944)-499200	Disconnect supervision timer
		Only these timers are allowed for FGD trunks.
FGNO	(0)–127	FGD block number

LD 19—Code restriction (Part 1 of 6)

Note: Ensure that numeric zero is used for mnemonics IN0, NA0, and SA0.

REQ	NEW, CHG	Add or change
TYPE	FGDB	Feature Group D data block
FGNO	0–127	FGD block number IF REQ = NEW, no response is allowed. The next free block number is always defined.
CIC	0000-9999	Carrier ID Response must be 3 or 4 digits.<CR> not allowed when REQ = NEW.
CCLS	IC, CONS	Carrier class Interexchange, or Consolidated <CR> not allowed when REQ = NEW.
PRES	(YES), NO	Presubscription
OVLDP	(YES), NO	Overlapped outpulsing by the LEC

LD 19—Code restriction (Part 2 of 6)

Note: Ensure that numeric zero is used for mnemonics IN0, NA0, and SA0.

CCAN	xxx (YES), NO	Call categories expected on calls to Carrier (xxx), and if ANI is provided (Yes or No). XXX must be one of the following: 1 + calls (inside WZ1) 0 + calls (inside WZ1) 1 + calls (outside WZ1) 0 + calls (outside WZ1) 0 - calls 1 + calls (embodied SAC) 1 + calls (external SAC) 0 + calls (external SAC) cut-through calls All calls (Default when REQ = NEW) When REQ = NEW, default is ALL.
	NAM	
	NA0	
	INT	
	IN0	
	OPR	
	SAM	
	SAX	
	SA0	
	CUT	
	ALL	
SAC	xxx xxx...	Service Access Code Up to 8 SACs can be defined. 700, 800, 900, and 610 are the defaults defined. X removes the access code.
ANII	xx	ANI data block index 0–31 0 = no ANI screening. Default when REQ = NEW.
CDAN	YES, (NO)	ANI digits provided in CDR
SHAN	YES, (NO)	Show ANI digits on terminal displays
PRTD	(NO), ALL, REJ	Printout control for invalid II, ANI NO = no printouts issued ALL = printout on all invalid II, ANI REJ = printout on all invalid II, but no printout for invalid ANI if ANI screening assigned an NCOS to the call
LDAC	AC1, AC2	Long Distance Access Code Only if NARS is equipped
LAAC	AC1, AC2	Local Area Access Code Only if NARS is equipped

LD 19—Code restriction (Part 3 of 6)

Note: Ensure that numeric zero is used for mnemonics IN0, NAO, and SA0.

OPER	DN xxxx. . xx RAN xxx	Treatment for 0+, 0- calls 1–16 digit network or local DN RAN route (0-511)
INTR	(NO), YES	Intercept treatment specified
_ADFT	(OVF), RAN xxx, DN xxx . . xx	for invalid address format (overflow, RAN, or local or network DN)
_IIT	(OVF), RAN xxx, DN xxx . . XX	for invalid IIs (overflow, RAN, or local or network DN)
IITP	xx yyyy zz REGU 4A8P HOTL CLES TST3 AIOD COIN TST7	Valid II, II type, and NCOS for ANI screening XX is an II range 00-99 YYYY must be one of the following: Regular II 4 and 8 party II Hotel/Motel II Coinless II Test3 II AIOD II Coin II Test7 II ZZ is an optional NCOS number defining ANI screening bypass range 00–99. ANI screening bypass defaults to “NO” if an NCOS is not entered.
CPAR	(NO), YES	Call Processing parameters

LD 19—Code restriction (Part 4 of 6)

Note: Ensure that numeric zero is used for mnemonics IN0, NA0, and SA0.

_INIT	0-(7)9	Length of initial string of dialed digits on outgoing calls (enbloc dialing)
_ENBL	1-(12)-30	Long enbloc dialing timeout (before initial string is complete) in seconds
_ENBS	1-(5)30	Short enbloc dialing timeout (after initial string is complete) in seconds
_IFTO	2-(120)-255	Inter FGD field timeout (max time between two FGD fields) in seconds
_DGTO	128-(640)-5000	Inter digit timeout (max time between two FGD digits in same field) in Msec
_MONT	0-(256)-2048	Minimum on hook time (min time between acknowledgment wink and answer off hook signal) in Msec
REQ	new, chg, out, prt	Create, change, remove or print
TYPE	ANI	FGD ANI data block
ANII	xx	ANI data block index (1–31)
These prompts are given when REQ = NEW or CHG:		
ANIT	OVF	Invalid ANI treatment: overflow tone (default)
	RAN xxx	Recorded announcement route (0–511)
	DN xxx..xx	1–16 digits, typically a Meridian 1 internal DN
	NCOS xx	NCOS value (0–99)
NPA	xxx <CR>	First 3 digits of ANI (in NPA format) to reprompt REQ
3ANI	DENY	3-digit ANI not allowed (default)-apply invalid ANI treatment
	NCOS xx	3-digit ANI allowed: NCOS value (0–99)

LD 19—Code restriction (Part 5 of 6)

Note: Ensure that numeric zero is used for mnemonics IN0, NA0, and SA0.

SLV3	NXX	Use 6- or 10-digit screening level; prompt NXX next
	NCOS xx	3-digit screening: all NXX+XXXXs map to NCOS value xx (0–99); reprompt NPA
NXX	xxx "yyy"	Range of end office numbers (NXX) Prompted only if SLV3=NXX xxx—starting or only NXX yyy—ending NXX (optional);
	<CR>	to reprompt NPA
SLV6	SUB	Use 10-digit screening level; prompt SUB next; not allowed if yyy entered.
	NCOS xx	Use 6-digit screening level; all xxxxs map to NCOS value xx (0–99); to reprompt NXX.
SUB	xxxx "yyyy"	Range of subscriber numbers (XXXX); prompted if SLV6=SUB xxxx—starting or only subscriber # xxxx—end subscriber # (optional)
	<CR>	to reprompt NXX
NCOS	xx	NCOS value (0–99) for the subscribers; reprompt SUB

LD 19—Code restriction (Part 6 of 6)

Note: Ensure that numeric zero is used for mnemonics IN0, NA0, and SA0.

These prompts are given when REQ = PRT:

NPA	xxx	Specified NPA printed; prompt NXX next
	ALL	All NPAs defined printed; reprompt REQ
	<CR>	to reprompt REQ
NXX	xxx [yyy]	Range of end office numbers (NXX); xxx—starting or only NXX yyy—ending NXX (optional) reprompt NXX if yyy entered. Prompt SUB next if only xxx entered to reprompt NPA
	<CR>	
SUB	xxxx [yyyy]	Range of subscriber numbers (XXXX); xxxx—starting or only subscriber # xxxx—end subscriber # (optional) reprompt SUB.
	<CR>	To reprompt NXX

These prompts are given when REQ = OUT

ENTER YES TO CONFIRM	YES	To confirm the OUT request - the entire ANI data block is deleted for OUT request.
	(NO)	The OUT request is not executed.

Note 1: To remove (undefine) an NPA, NXX, or a SUB number, precede the number with X. To remove a range of NXX or subscriber numbers, precede the starting number with X.

Note 2: To abort the current line of data entered, press the * key. The system will reprompt the current prompt.

Note 3: To abort the current incomplete prompting sequence, press the * key twice (**).REQ will be reprompted. All the data entered in the previous and complete prompting sequences will remain in the system.

Note 4: To abort active overlay program, enter ****, or END in response to the system prompt REQ. All the data entered in the previous and complete prompting sequences will remain in the system.

Table 16 defines the information digits (II) that are used as defaults in the LD 19 code restriction program.

Table 16
Default IITP values

II	II type	ANI screening bypass
00	REGU	NO
01	4A8P	NO
06	HOTL	NO
07	CLES	NO
10	TST3	NO
20	AIOD	NO
27	COIN	NO
95	TST7	NO

LD 20—Print routine

REQ	PRT	Print
TYPE	TNB FGD MFR	Includes FGD trunks and MFRs Print FGD trunks Print Multifrequency units
TN	I s c u	loop, shelf, card, unit

LD 21—Print routine

This print routine is modified to print FGDT route data blocks as defined using LD 16.

LD 22—Print routine

“FGD” is printed if package 158 is equipped.

LD 29—Memory management

REQ	ADD	Add, or change
TYNM	MFRR 1–255	Number of multifrequency receivers
	FGD xxx yyy	FGD data blocks xxx = FGD data blocks (1–128) yyy = average number of II entries
	ANI xxx yyyy zzzzz	FGD ANI blocks xxx = number NPAs (1–160) yyyy = number of NXXs (0–9999) zzzzz = number XXXXs (0–30,000)

LD 86—ESN

Changes are made to LD 86 to allow for definition and a print out of a new type of Route List Entry, which is the Local Termination (LTER) entry. The prompts and responses are listed below.

Prompt		Definition
REQ	new, out, chg, prt, end	
FEAT	rlb	
RLI	0–255	
ENTR	0–63	
LTER	yes/(no)	Local Termination entry
If “yes” is entered, only the following prompts appear for this entry (there is no change in prompt responses):		
TOD		Time of Day Schedule
FRL		minimum Facility Restriction Level
DMI		Digit Manipulation table Index
FCI		Free Calling Area Screening table index
The following prompts do not appear for this entry and they are set to the specified values. This is also true when changing a regular entry to an LTER entry:		
ROUT	0	Route Number
TDET	no	Tone Detector Used
CNV	no	conversion to LDN required
EX	no	expensive route
OHQ	no	Off Hook Queuing allowed
CBQ	no	Call Back Queuing allowed
Note: No new SCH error codes are required in this LD.		